

WE CLAIM:

1. A driver circuit for driving signal lines of a matrix type display device,
comprising:
pulsewidth modulation circuitry for generating pulsewidth modulated video data;
and
driver circuitry for driving said signal lines in accordance with the pulsewidth
modulated video data.

2. The driver circuit according to claim 1, wherein said driver circuitry
comprises level-shifting circuits.

3. The driver circuitry according to claim 1, wherein said pulsewidth
modulation circuitry comprises a programmable logic array.

4. The driver circuitry according to claim 1, wherein said pulsewidth
modulation circuitry comprises an application specific integrated circuit.

5. The driver circuit according to claim 1, wherein said signal lines are
connected to emitter elements of a field emission display.

6. The driver circuit according to claim 1, wherein said pulsewidth
modulation circuitry generates the pulsewidth modulated video data based on RGB video
data supplied thereto.

1 7. The driver circuit according to claim 1, wherein said driver circuitry is
2 provided on a chip other than a chip on which said pulsewidth modulation circuitry is
3 provided.

1 8. The driver circuit according to claim 1, wherein said driver circuitry
2 comprises driver circuits that are loaded in parallel with the pulsewidth modulated video
3 data.

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1 9. A matrix type display device comprising:
2 display elements connected to row lines and column lines; and
3 a driver circuit for driving said column lines, said driver circuit comprising:
4 pulsewidth modulation circuitry for generating pulsewidth modulated
5 video data; and
6 driver circuitry for driving said column lines in accordance with the
7 ~~pulsewidth modulated video data.~~

1 10. The matrix type display device according to claim 9, wherein said driver
2 circuitry comprises level-shifting circuitry. -

1 11. The matrix type display device according to claim 9, wherein said display
2 device is a field emission display device.

1 12. The matrix type display device according to claim 9, wherein said display
2 device is a plasma display device.

1 13. The matrix type display device according to claim 9, wherein said
2 pulsewidth modulation circuitry comprises a programmable logic array.

1 14. The matrix type display device according to claim 9, wherein said
2 pulsewidth modulation circuitry comprises an application specific integrated circuit.

1 15. The matrix type display device according to claim 9, wherein said
2 pulsewidth modulation circuitry generates the pulsewidth modulated video data based on
3 RGB video data supplied thereto.

1 16. The matrix type display device according to claim 9, wherein said driver
2 circuitry is provided on a chip other than a chip on which said pulsewidth modulation
3 circuitry is provided.

1 17. The matrix type display device according to claim 9, wherein said driver
2 circuitry comprises driver circuits that are loaded in parallel with the pulsewidth
3 modulated video data.

1 18. ~~A method of driving signal lines of a matrix type display device,~~
2 comprising:
3 generating pulsewidth modulated video data; and
4 ~~driving said signal lines in accordance with the pulse-width modulated data.~~

1 19. The method according to claim 18, wherein said matrix type display
2 device is a field emission display device.

1 20. The method according to claim 18, wherein said matrix type display
2 device is a plasma display device.

1 21. The method according to claim 18, wherein the pulsewidth modulated
2 video data is generated based on RGB video data.

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